PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or ag	gent's file reference							
50821-14 PCT		FOR FURTHER AC	CTION	See Form PCT/IPEA/416				
International app	lication No.	International filing date	(day/month/year)	Priority date (day/month/year)				
PCT/US04/10638		07 April 2004 (07.04.20	04)	07 April 2003 (07.04.2003)				
	International Patent Classification (IPC) or national classification and IPC							
IPC(7): C07D 239/36, 239/80; A61K 31/505, 31/517 and US C1.: 544/287, 289, 319; 514/266.3, 266.31, 269								
Approan								
NPS PHARMACEUTICALS, INC.								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This								
3. This	3. This report is also accompanied by ANNEXES, comprising:							
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:								
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relating to the following items:								
\boxtimes		sis of the report						
	Box No. II Pri	ority						
	Box No. III No	n-establishment of opin	uion with regard to nove	elty, inventive step and industrial				
		ck of unity of invention						
\boxtimes	Box No. V Re	Reasoned statement under Article 35(2) with regard to novelty, inventive step or						
	industrial applicability, citations and explanations supporting such statement Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application			on				
Date of submissi	on of the demand		Date of completion o					
07 September 200	4 (07 09 2004)		11 July 2005 (11.07.200	-				
Name and mailing	07 September 2004 (07.09.2004) Name and mailing address of the IPEA/US			05)				
Mail Stop	PCT, Atta: IPBA/US	-	Anthorized officer	4 amas (1				
Mail Stop PCT, Attn: IPBA/US Commissioner for Patents P.O. Box 1450 Anthorized officer Deepak Rao Deepak Rao								
Alexandria, Virginia 22313-1450								
Pacsimile No. (703) 305-3230 Telephone No. 571-272-1600								

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/10638	

Box No. I Basis of the report					
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 					
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:					
international search (under Rules 12.3 and 23.1(b))					
publication of the international application (under Rule 12.4)					
international preliminary examination (under Rules 55.2 and/or 55.3)					
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
the international application as originally filed/furnished					
the description:					
pages 1-45 as originally filed/furnished					
pages* NONE received by this Authority on					
pages* NONE received by this Authority on					
the claims:					
pages 46-54 as originally filed/furnished					
pages* NONE as amended (together with any statement) under Article 19 pages* NONE received by this Authority on					
pages* NONE received by this Authority on					
the drawings:					
pages 1 as originally filed/furnished					
pages* NONE received by this Authority on					
pages* NONE received by this Authority on					
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3. The amendments have resulted in the cancellation of:					
the description, pages					
the claims, Nos					
the drawings, sheets/figs					
the sequence listing (specify):					
any table(s) related to the sequence listing (specify):					
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
the description, pages					
the claims, Nos					
the drawings, sheets/figs					
the sequence listing (specify):					
any table(s) related to the sequence listing (specify):					
* If item 4 applies, some or all of those sheets may be marked "superseded."					
Form PCT/IPEA/409 (Box No. I) (January 2004)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/10638

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims 11-20	YES				
	Claims 1-10	NO				
Inventive Step (IS)	Claims 11-20	YES				
	Claims 1-10	NO				
Industrial Applicability (IA)	Claims 1-20	YES				
	Claims NONE	NO.				

2. Citations and Explanations (Rule 70.7)

Claims 1-10 lack novelty under PCT Article 33(2) as being anticipated by EP 579424. The instant claims read on reference disclosed compounds of formula I, see the compounds disclosed in Table 1, compound no. 15, 20, etc. and Table 1A, compound 221, 224.

Claims 1-10 lack an inventive step under PCT Article 33(3) as being obvious over EP 579424. The reference teaches a generic group of 2-arylpyrimidine-4-one compounds, which embraces applicant's instantly claimed compounds. See formula (I) in page 3, and the preferred subgenera in various Tables. The compounds are taught to be useful as herbicides, see the abstract. The instant claims differ from the reference by reciting specific species or a more limited subgenus than the reference. It would have been obvious to one having ordinary skill in the art at the time of the invention to select any of the species of the genus taught by the reference, including those instantly claimed, because the skilled chemist would have the reasonable expectation that any of the species of the genus would have similar properties and, thus, the same use as taught for the genus as a whole i.e., as therapeutic agents. One of ordinary skill in the art would have been motivated to select the claimed compounds from the genus in the reference since such compounds would have been suggested by the reference as a whole.

Claims 11-20 meet the criteria of novelty and inventive step set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed compounds. See the reference EP 579424 which teaches 2-arylpyrimidin-4-one compounds, however, the reference does not teach or fairly suggest the compounds of the instant claims.

Claims 1-20 meet the criteria set out in PCT Article 33(4) as the compounds are disclosed to have pharmaceutical activity, and thus meet the industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (January 2004)